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the middle ages and the renaissance; evolution of the idea of species; the philosophers of the eighteenth century: Buffon, Lamarck, Geoffrey St. Hilaire, Cuvier. Discussion between Cuvier and Geoffrey Saint Hilaire, Goethe, Dugès, the natur-philosophers, the theory of organic types and its consequences; Agassiz; the lower animals; the cellular theory and the constitution of the individual embryology, the species and its modifications.

CANADIAN GEOLOGICAL SURVEY.—The Canadian Geological Survey has published a descriptive sketch of the physical geography and geology of Canada, which has been prepared to accompany a new geological map of the Dominion on a scale of forty miles to one inch. The description of the eastern section is by the Director of the Survey, Dr. Selwyn, and of the western part by Dr. G. M. Dawson. The maps are a valuable addition to geological science, as embodying the latest explorations of the survey, particularly on the Pacific coast, as also in Newfoundland.

TWELFTH ANNUAL REPORT OF THE GEOLOGICAL AND NATURAL HISTORY SURVEY OF MINNESOTA.—The report is mainly devoted to Mr. Herrick's final report on the Crustacea of Minnesota, which has been already noticed in this magazine, and also to Mr. Warren Upham's catalogue of the flora of Minnesota.

RECENT BOOKS AND PAMPHLETS.

- Martin, H. N.*—A correction of certain statements published in the "Zoöphilist," also a castigation and an appeal. Baltimore, 1885. From the author.
- Jackson, A. W.*—On the morphology of Colemanite. Bull. Cal. Acad. of Sciences, Jan., 1885. From the author.
- Derby, O. A.*—Physical geography and geology of Brazil. Rio Janeiro, 1884.
- On the flexibility of Itacolumite. Ext. Amer. Jour. of Science, 1884. Both from the author.
- Rice, W. N.*—The geology of Bermuda. From Bull. No. 25 U. S. National Museum, Washington, 1884. From the author.
- Sharp, B.*—Homologies of the vertebrate crystalline lens. Ext. Proc. Nat. Sci., Phil., 1884. From the author.
- Frazer, P.*—Address read before the Royal Society of Canada, May, 1884. From the author.
- James, J. F.*—The Fucoids of the Cincinnati group. Ext. Jour. Cin. Soc. Nat. Hist., 1884. From the author.
- Kollmann, J.*—Hohes Alter der Menschenrassen. Zeitschrift für Ethnologie, Berlin, 1884. From the author.
- Ryder, J. A., and Puysegur, M.*—Papers on the development and greening of the oyster. Washington, 1884. From the authors.
- Geinitz, H. B.*—Ueber die Grenzen der Zechsteinformation und der Dyas überhaupt. From the author.
- Crosby, W. O.*—Origin and relations of continents and ocean basins. Ext. Proc. Bost. Soc. Nat. Hist.
- On the relations of conglomerate and slate in the Boston basin. Ext. idem.
- On the chasm called "Purgatory" in Sutton, Mass. Ext. idem. All from the author.
- Oliver, C. A.*—A correlation theory of color perception. Ext. Amer. Jour. Med. Sci., 1885. From the author.

- Gardner, J. S.*—The age of the basalts of the Northeast Atlantic. Read before the Belfast Nat. Field Club, 1884.
- British Cretaceous Nuculidæ. Ext. Quart. Jour. Geol. Soc., 1884.
- Relative ages of American and English fossil floras. Ext. Geol. Mag., 1884. All from the author.
- Robinson, J.*—Report of the committee on forest trees. Ext. Proc. Essex Agric. Soc., 1884.
- Botany in Essex county. Ext. Bull. Essex Institute, 1884. Both from the author.
- Beecher, C. E.*—Some abnormal and pathologic forms of fresh-water shells from the vicinity of Albany, N. Y. Ext. 36th Rep. N. Y. State Mus. Nat. Hist., 1884. From the author.
- Willard, S. W.*—Migration and distribution of North American birds in Brown and Ontagamie counties. From the author.
- Struthers, J.*—On the bones, articulations and muscles of the rudimentary hind-limb of the Greenland right whale. Ext. Jour. Anat. and Phys., Vol. xv, 1881. From the author.
- Stevenson, W. G.*—Does spiritualism transcend natural law? From the author.
- Baur, G.*—On the centrale carpi of the mammals. Ext. Amer. Nat., Feb., 1885. From the author.
- Scott, W. L.*—The great white egret and the yellow rail in Ottawa, Canada. From the Auk, 1885.
- The winter Passeres and Picariæ of Ottawa. Both from the author.
- Hanks, H. G.*—Fourth annual report of the State mineralogist of California, 1884. From the author.
- Graff, L. von*—Ueber einige Deformitäten fossilen Crinoiden. From "Palæontographica," 1885. From the author.
- Dames, W.*—Ueber Archæopteryx. Palæontologische Abhandlungen, Band II, Heft 3. From the author.
- Deslongchamps, E.*—Etudes Critiques sur des Brachipodes nouveaux on peu connus. 1884. From the author.
- Collett, J., Cope, E. D., and Wortman, J.*—Fourteenth annual report of the State geologist of Indiana. Part I. Geology and natural history. Part II. Post-pliocene Vertebrates of Indiana. From the State geologist.
- Topinard, P.*—Éléments d'Anthropologie Générale. Paris, 1885. From the author.
- Scudder, S. H.*—The earliest winged insects of America. Cambridge, Mass., 1885. From the author.
- Lydekker, R.*—The Labyrinthodont from the Bijori group. Memoirs Geol. Surv. of India. From the author.
- Kingsley, J. S., et al.*—The Standard Natural History. Vol. I. Lower Invertebrates. Cassino & Co., Boston, 1885. From the publishers.
- Winchell, N. H., and Harrington, M. W.*—The geological and natural history survey of Minnesota. Vols. IV, VII, X, XI, XII. From the authors.

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GENERAL NOTES.

GEOGRAPHY AND TRAVELS.¹

AFRICA.—*The Niger*.—General Faidherbe, in an article upon the "Niger Question," in the *Revue Scientifique*, tells us that the people of the marshy delta, and of the fine country beyond as far as Idda, are fetishists, while from this point Mussulmans dominate.

¹ This department is edited by W. N. LOCKINGTON, Philadelphia.